INSTRUCTIONS

-J05209 REV. 2010-07-07

PASSING LAMP/TURN SIGNAL RELOCATION KIT

GENERAL

Kit Number

68412-99A, 68413-99A

Models

For model fitment information, see the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Additional Parts Required

2011 Softail will require use of an UltraTorch UT-100 (Part No. HD-39969), Robinair Heat Gun (Part No. HD-25070) with Heatshrink Attachment (Part No. HD-41183), or other suitable radiant heating device.

Crimping tool (HD-38125-8)

⚠WARNING

The rider's safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333a)

NOTE

This instruction sheet references service manual information. A service manual for your model motorcycle is required for this installation and is available from a Harley-Davidson Dealer.

Kit Contents

See Figure 5 and Table 1.

INSTALLATION

⚠WARNING

To prevent spray of fuel, purge system of high-pressure fuel before supply line is disconnected. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00275a)

Follow service manual instructions to purge the fuel supply of high pressure gasoline and remove the fuel supply line if necessary.

⚠WARNING

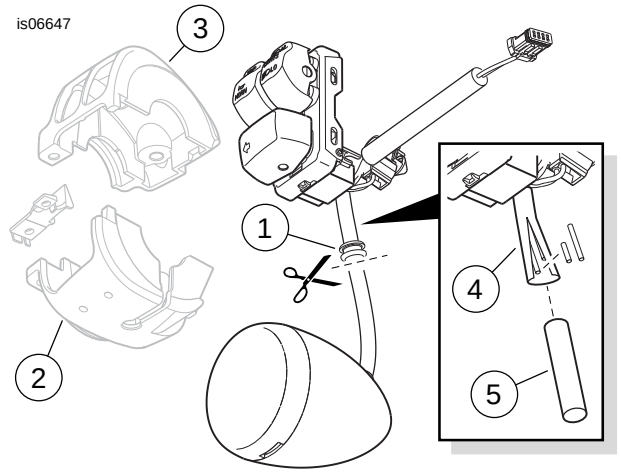
To prevent accidental vehicle start-up, which could cause death or serious injury, remove main fuse before proceeding. (00251b)

⚠WARNING

Gasoline can drain from the carburetor fuel line when disconnected from fuel valve fitting. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. Wipe up spilled fuel immediately and dispose of rags in a suitable manner. (00256a)

2011 And Later Softail FLSTF

1. See Figure 1. Cut the turn signal wires and conduit flush with the grommet (1) on the underside of the handlebar lower switch housing (2). Remove and discard stock turn signals.



1. **Grommet**
2. **Handlebar lower switch housing**
3. **Handlebar upper switch housing**
4. **Turn signal wire vinyl conduit**
5. **Shrink tube**

Figure 1. Cut Turn Signal From Switch Assembly

2. Separate the upper (3) and lower switch housings per service manual instructions.
3. Remove the grommet from the end of the turn signal wire vinyl conduit (4) still connected to the switch housing.
4. Make about a one inch (25 mm) long slit in the end of the conduit.

   Cut one wire back about 1/2 inch (12 mm) from the end of the conduit.

   Cut the second wire back about 1/4 inch (6 mm) from the end of the conduit.
5. Slip the two-inch (50.8 mm) long section of encapsulating (dual wall) shrink tube (5) over the conduit and wires.

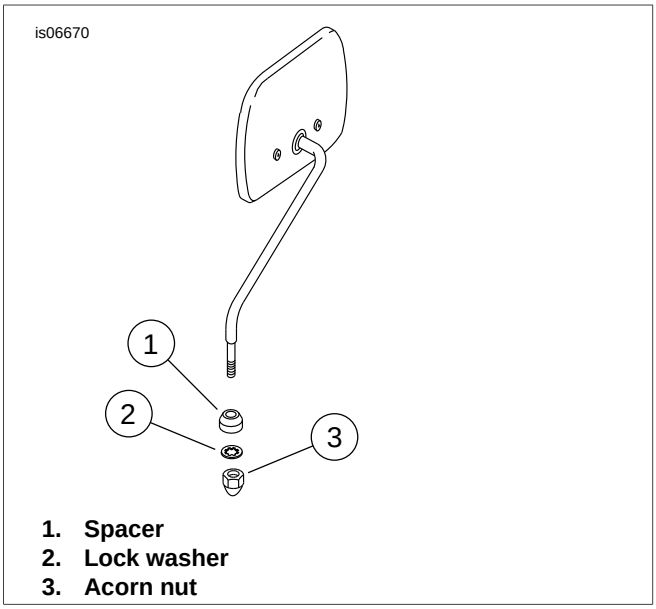
6. Use a heat gun or suitable radiant-heating device to shrink the tubing to the wires and conduit.

7. Assemble the switches and switch housings to the handlebar per service manual instructions, tucking the shrink-sealed wire ends back inside the switch housings.

   Repeat on the opposite side of the vehicle.

8. Install the new turn signals from the kit using the "Connector Method" as shown below. Refer to the wiring diagrams and the AMP MULTI-LOCK ELECTRICAL CONNECTORS in the service manual.

9. See Figure 2. Install the mirrors using lockwashers and spacers on the mirror shaft and secure with an acorn nuts from the kit. If the acorn nut bottoms out without tightening, remove the acorn nut, add a spacer from the kit and install acorn nut and tighten.



1. Spacer
2. Lock washer
3. Acorn nut

Figure 2. Mirror Hardware

For 2010 and Earlier Preparation

1. Determine Method for Installation:

   Connector Method: This is the preferred means of rewiring the turn signals. It involves crimping the terminals on wires and insert in proper cavities as noted to enable plug-in of turn signals and the auxiliary lamp connector.

   Wire Splicing Method: This involves tracing the turn signal wires back to where they exit from under the fuel tank. This method eliminates the need to remove the fuel tank. Label the wires according to which turn signal they are routed to. Cut the wires leaving approximately 2-3 inches (50-75 mm) of wire extending from the point where the wires exit under the tank.

Relocate Front Turn Signals

1. Disconnect battery cables, negative cable first.

2. Remove fuel tank using service manual instructions. Removing the tank is not necessary if you choose to use the wire splicing method.

3. Disconnect the turn signal connector halves under the gas tank.

4. Remove connector from turn signal harness and remove turn signals from mirrors. Save the internal tooth lockwasher, spacer and acorn nut.

5. See Figure 2. Install the lockwasher and spacer on the mirror shaft and secure with an acorn nut from the kit. If the acorn nut bottoms out without tightening, remove the acorn nut, add a spacer from the kit and install acorn nut and tighten.

6. Repeat step 5 for the opposite mirror installation.

Connector Method

1. Make note of the wire colors and positions in each cavity of the six-place Multilock socket housing. Remove the existing socket housing from the turn signal harness. Crimp the terminals on wires using service manual instructions and insert in proper cavities of socket from kit as noted below.

2011 Softail 6-place connector on vehicle has the following cavities/colors:

Cavity - Color

- 1 - Black = Ground
- 2 - Blue with Orange Stripe = Right Turn
- 3 - Blue = Position (Running) Light in Turn Signal
- 4 - Blue = Position (Running) Light in Turn Signal
- 5 - Blue with Pink Stripe = Left Turn
- 6 - Black = Ground

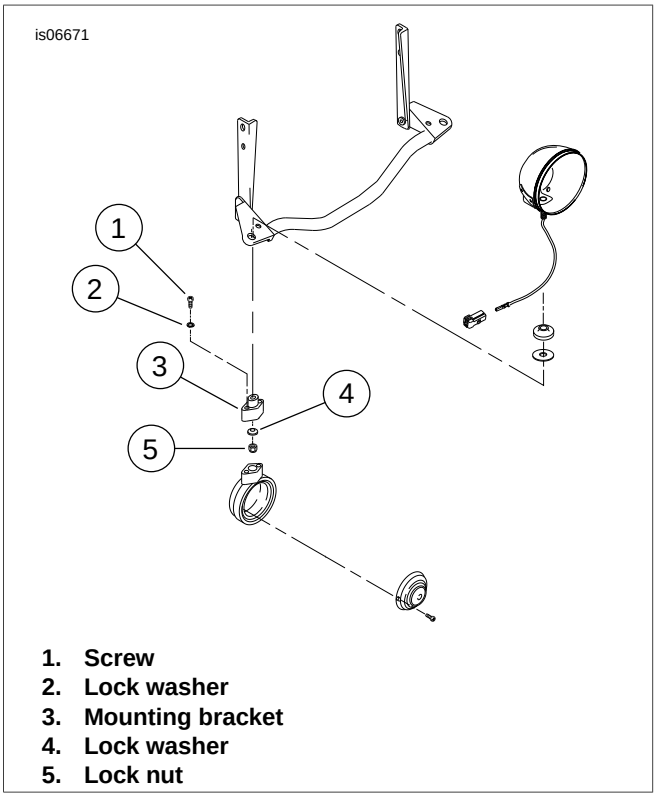
2010 & Earlier Softail 6-place connector on vehicle has the following cavities/colors:

Cavity - Color

- 1 - Black = Ground
- 2 - Brown = Right Turn
- 3 - Blue = Position (Running) Light in Turn Signal
- 4 - Blue = Position (Running) Light in Turn Signal
- 5 - Violet = Left Turn
- 6 - Black = Ground

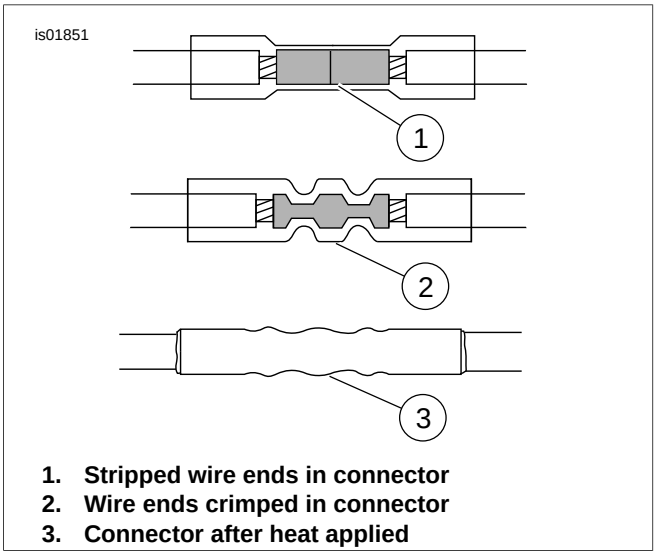
2. Cut wiring from each passing lamp and remove acorn nut fastener from both and discard.

3. Mount left and right turn signal to mounting bracket (3) using screws (1), lockwasher (2), spacer (4) and locknut (5). Be sure wires exit slot on mounting bracket.



1. **Screw**
2. **Lock washer**
3. **Mounting bracket**
4. **Lock washer**
5. **Lock nut**

Figure 3. Turn Signal Mounting



1. **Stripped wire ends in connector**
2. **Wire ends crimped in connector**
3. **Connector after heat applied**

Figure 4. Installing Sealed Butt Connectors

Wire Splicing Method

1. Remove right and left hand turn signals from mirrors and discard.
2. Cut wiring from turn signals.
3. Cut wiring from each passing lamp and remove acorn nut fastener from both and discard. Passing lamp wires will be reconnected using butt splices.
4. Mount new left and right turn signal from kit to mounting bracket (3) using screws (1), lockwasher (2), spacer (4) and locknut (5). Be sure wires exit slot on mounting bracket.

NOTE

The turn signals on international models will have a purple and black wire while domestic will have a purple, black and blue wire.

5. Make note of the wire colors and positions in each cavity of the six-place Multilock socket housing. Remove the existing socket housing from the turn signal harness. Crimp the terminals on wires using service manual instructions and insert in proper cavities of socket from kit as noted below.

2010 & Earlier Softail 6-place connector on vehicle has the following cavities/colors:

Cavity - Color

- 1 - Black = Ground
- 2 - Brown = Right Turn
- 3 - Blue = Position (Running) Light in Turn Signal
- 4 - Blue = Position (Running) Light in Turn Signal
- 5 - Violet = Left Turn
- 6 - Black = Ground

⚠WARNING

Be sure to follow manufacturer's instructions when using the UltraTorch UT-100 or any other radiant heating device. Failure to follow manufacturer's instructions can cause a fire, which could result in death or serious injury. (00335a)

- Avoid directing heat toward any fuel system component. Extreme heat can cause fuel ignition/explosion resulting in death or serious injury.
- Avoid directing heat toward any electrical system component other than the connectors on which heat shrink work is being performed.
- Always keep hands away from tool tip area and heat shrink attachment.

6. Using the UltraTorch UT-100 , Robinair Heat Gun or other suitable radiant heating device, heat the crimped splice to encapsulate the butt splice connection. Apply heat from the center of the crimp out to each end until the meltable sealant exudes out of both ends of the connector. Let the splices cool.
7. Use tie wraps to secure wiring to frame.
8. Install fuel tank if previously removed.

⚠WARNING

Connect positive (+) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00068a)

9. Reconnect battery cables (positive cable first).

⚠WARNING

Be sure that all lights and switches operate properly before operating motorcycle. Low visibility of rider can result in death or serious injury. (00316a)

10. Test turn signals and passing lamps. Align turn signals and passing lamps and tighten hardware.

SERVICE PARTS

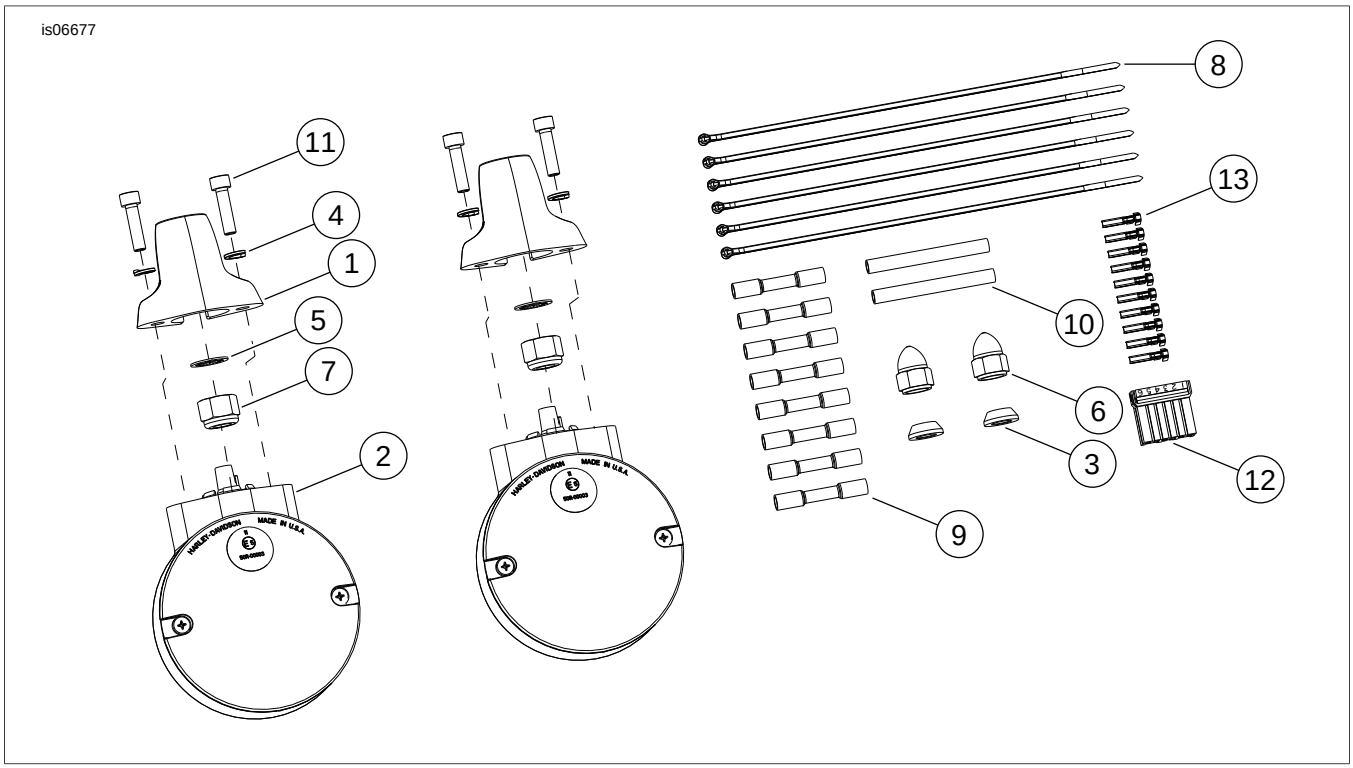


Figure 5. Service Parts: Passing Lamp/Turn Signal Relocation Kit

Table 1. Service Parts Table

Kit	Item	Description (Quantity)	Part Number
Kit 68412-99A Kit 68413-99A	1	Lamp mounting bracket (2)	68519-68A
	2 2	Turn signal lamp assembly, DOM front (2) Turn signal lamp assembly, DOM front (2)	68767-94 (kit 68412-99A) 68766-94 (kit 68413-99A)
	3	Mirror mount spacer (2)	5714
	4	Helical spring lock washer, nominal screw size #10 (4)	7069
	5	Lock washer, internal tooth (2)	7127
	6	Acorn nut (2)	7736
	7	Lock nut, nylon insert (2)	7778
	8	Cable strap (6)	10181
	9	Wire connector, butt splice 18-22 GA. (8)	70585-93
	10	Shrink tube (2)	72411-97
	11	Hex socket cap head screw (4)	2647B
	12	Socket housing, 6 place	73156-96BK
	13	Terminal socket, 16-20 AWG	73191-96